

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
973837	W-172.04	Change

3. Project Name: Patuxent Water Treatment Implementation

4. Program: **Sanitation** 6. Planning Area: Bi-County

2. Date: October 1, 2003

Revised:

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

5. Agency: **WSSC****B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '03	(10) Estimate FY '04	(11) Total 6 Years	(12) Year 1 FY '05	(13) Year 2 FY '06	(14) Year 3 FY '07	(15) Year 4 FY '08	(16) Year 5 FY '09	(17) Year 6 FY '10	(18) Beyond 6 Years
Planning, Design & Supervision	14,221	12,087	950	1,184	845	339					
Land	5	5									
Site Improvements & Utilities											
Construction	30,619	21,610	4,500	4,509	3,509	1,000					
Other	1,114		545	569	435	134					
Total	45,959	33,702	5,995	6,262	4,789	1,473					

C. Funding Schedule (000's)

WSSC Bonds	45,959	33,702	5,995	6,262	4,789	1,473					
------------	---------------	--------	-------	--------------	-------	-------	--	--	--	--	--

D. Description & Justification**DESCRIPTION**

The purpose of this project is to replace the existing Patuxent Water Filtration Plant with a new facility. This will provide for the project design and construction of facilities necessary to insure continued water treatment capabilities from the Patuxent River. This project includes construction of an advanced conventional water treatment plant on the existing site with discharge of residuals to the Parkway Wastewater Treatment Plant. This project consists of a new plant with 56 MGD of nominal treatment capacity and the capability to provide emergency capacity up to approximately 72 MGD. A second phase would include an additional 16 MGD of nominal treatment capacity and the ability to provide 120 MGD of emergency capacity. The project funding shown above in Block "B" provides for only the first phase, as well as funds necessary for plant modifications that will allow a second phase of the project to be constructed without retrofitting the first phase portion of the plant. The additional phase of the project is primarily needed to provide additional emergency reliability (redundancy) to the water distribution system.

Service Area Bi-County Area

Capacity 56 MGD

Population 560,000

JUSTIFICATION**Plans & Studies**

Patuxent Water Filtration Plant Rehabilitation Study, MCA Engineering Corp. (September, 1976); A Comprehensive Long-Range Macro-Level Analysis of the WSSC Water Supply and Wastewater Systems, WSSC (1990); MNCPPC Round 6 growth forecasts; and Patuxent WTP Facility Plan, O'Brien & Gere Engineers, Inc. (April, 1997).

Specific Data

The original filter unit for the Patuxent WFP was put into service in 1944. Expansion projects in 1951 and 1955 brought the treatment capacity to the present level. The aged plant is vulnerable to deterioration which could jeopardize a critical component of the water system and a significant amount of water treatment capacity for the WSSD.

Cost Change

Not Applicable.

STATUS Under Construction (WSSC Contract No. BF1582A91,).**OTHER**

The project scope has remained the same. The purpose of this project is replacement of a critical component of the water system.

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment (and the) and Interstate Commission on the Potomac River Basin.

NOTE This project supports 100% System Improvement.**E. Annual Operating Budget Impact (000's)**

FY of Impact

Program Costs	Staff	
	Other	
Facility Costs	Maintenance	
	Debt Service	3775	07
Total Costs.....		3775	07
Impact on Water or Sewer Rate.....	8¢	07

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 97
Date First Approved	FY 97
Initial Cost Estimate	164,905
Cost Estimate Last FY	44,736
Present Cost Estimate	45,959
Approved Request, Last FY	5,995
Total Expenditures & Encumbrances	33,702
Approval Request FY 05	4,789
Supplemental Approval Request Current FY (04)	

G. Status Information

Land Status:	R/W acquired
% Project Completion:	C-68%
Est. Completion Date:	August 2005

H. Map Map Reference Code:**MAP NOT AVAILABLE**